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What I claim is:

1) A tunable band pass optical filter comprising:

a frame;

at least one translation plate;

at least one flexure element for mounting said at least one translation plate to said frame;

a first mirror mounted to said at least one translation plate;

a second mirror mounted to said frame in optical communication with said first mirror, having a distance between said first and said second mirror;

at least one compensation screw operatively connected to said frame and said at least one translation plate; and

at least one piezo-ceramic actuator operatively connected to said frame and said at least one translation plate.

2) The tunable band pass optical filter of claim 1 wherein said at least one translation plate includes a second translation plate; wherein said at least one flexure element includes a second flexure element for mounting said second translation plate to said frame; and

wherein said second mirror is mounted to said second translation plate.

- 3) The tunable band pass optical filter of claim 2 wherein said at least one compensation screw includes a second compensation screw.
- 4) The tunable band pass optical filter of claim 2 wherein said at least one piezo-ceramic actuator includes a second piezo-ceramic actuator.
- 5) The tunable band pass optical filter of claim 1 further including a spherical element interposed between said at least one piezo-ceramic actuator and said at least one translation plate.
- 6) The tunable band pass optical filter of claim 4 further including a spherical element interposed between said at least one piezo-ceramic actuator and said at least one translation plate.
- 7) The tunable band pass optical filter of claim 1 further including a position sensor operatively connected to said at least one translation plate.
- 8) The tunable band pass optical filter of claim 7 wherein said position sensor operates in a closed-loop system for adjusting said distance.
- 40 9) A tunable band pass optical filter of claim 1, further including a light input port and a light output port.
 - 10) A tunable band pass optical filter of claim 9, further including a light source.
 - 11) A tunable band pass optical filter of claim 9, further including at least one light collector.

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- 12) A tunable band pass optical filter of claim 11, wherein said at least one light collector includes a fiber optic tap coupler in optical alignment with said first and said second mirror.
- 13) A tunable band pass optical filter of claim 12, further including a photodiode operatively connected to said fiber optic tap coupler.
 - 14) A tunable band pass optical filter of claim 10, further including a light collimator operatively coupled to said light source and said input port.
- 10 15) A tunable band pass optical filter of claim 10, wherein said light collimator is a monomode fiber.
 - 16) A tunable band pass optical filter of claim 8 wherein said closed-loop system includes a controller for actuating said at least one piezo-ceramic actuator.